



SEQUENCE LISTING

<110> KRIEG, PAUL A.

<120> METHODS FOR MODULATING ANGIOGENESIS WITH APELIN
COMPOSITIONS

<130> 20825-0004

<140> 10/799,417

<141> 2004-03-12

<150> 60/454,034

<151> 2003-03-12

<150> 60/528,155

<151> 2003-12-09

<160> 21

<170> PatentIn Ver. 3.2

<210> 1

<211> 77

<212> PRT

<213> Homo sapiens

<400> 1

Met Asn Leu Arg Leu Cys Val Gln Ala Leu Leu Leu Leu Trp Leu Ser
1 5 10 15
Leu Thr Ala Val Cys Gly Gly Ser Leu Met Pro Leu Pro Asp Gly Asn
20 25 30
Gly Leu Glu Asp Gly Asn Val Arg His Leu Val Gln Pro Arg Gly Ser
35 40 45
Arg Asn Gly Pro Gly Pro Trp Gln Gly Gly Arg Arg Lys Phe Arg Arg
50 55 60
Gln Arg Pro Arg Leu Ser His Lys Gly Pro Met Pro Phe
65 70 75

<210> 2

<211> 36

<212> PRT

<213> Homo sapiens

<400> 2

Leu Val Gln Pro Arg Gly Ser Arg Asn Gly Pro Gly Pro Trp Gln Gly
1 5 10 15
Gly Arg Arg Lys Phe Arg Arg Gln Arg Pro Arg Leu Ser His Lys Gly
20 25 30
Pro Met Pro Phe
35

<210> 3
 <211> 17
 <212> PRT
 <213> Homo sapiens

<400> 3
 Lys Phe Arg Arg Gln Arg Pro Arg Leu Ser His Lys Gly Pro Met Pro
 1 5 10 15

Phe

<210> 4
 <211> 13
 <212> PRT
 <213> Homo sapiens

<400> 4
 Gln Arg Pro Arg Leu Ser His Lys Gly Pro Met Pro Phe
 1 5 10

<210> 5
 <211> 13
 <212> PRT
 <213> Brachydanio rerio

<400> 5
 Pro Arg Pro Arg Leu Ser His Lys Gly Pro Met Pro Phe
 1 5 10

<210> 6
 <211> 25
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 primer

<400> 6
 gtgcccaaag tctgagattc atggtt 25

<210> 7
 <211> 25
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 primer

<400> 7
 gattcatggt tcttgtggct gagtg 25

<210> 8
 <211> 25
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide

<400> 8
 gattgatctt tggtgtgcct cagtg 25

<210> 9
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 <213> Artificial Sequence

<220>
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 oligonucleotide

<400> 9
 aaggctgtgt ggaagcaata gaaag 25

<210> 10
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 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide

<400> 10
 aagcctctgt gcaaccaata caaag 25

<210> 11
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<220>
 <223> Description of Artificial Sequence: Synthetic
 consensus sequence

<400> 11
 Asx Ala Cys Gly Thr Gly Lys
 1 5

<210> 12
 <211> 10
 <212> DNA
 <213> Homo sapiens

<400> 12
gagacgtgga 10

<210> 13
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<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 13
cagacgtgac a 11

<210> 14
<211> 9
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<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 14
tgtacgtgg 9

<210> 15
<211> 12
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<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 15
aatgacgtga tg 12

<210> 16
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<220>
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oligonucleotide

<400> 16
tacgtggg 8

<210> 17
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 <213> Homo sapiens

<400> 17

Met	Glu	Glu	Gly	Gly	Asp	Phe	Asp	Asn	Tyr	Tyr	Gly	Ala	Asp	Asn	Gln
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Ser	Glu	Cys	Glu	Tyr	Thr	Asp	Trp	Lys	Ser	Ser	Gly	Ala	Leu	Ile	Pro
			20					25					30		
Ala	Ile	Tyr	Met	Leu	Val	Phe	Leu	Leu	Gly	Thr	Thr	Gly	Asn	Gly	Leu
			35				40					45			
Val	Leu	Trp	Thr	Val	Phe	Arg	Ser	Ser	Arg	Glu	Lys	Arg	Arg	Ser	Ala
	50					55					60				
Asp	Ile	Phe	Ile	Ala	Ser	Leu	Ala	Val	Ala	Asp	Leu	Thr	Phe	Val	Val
65					70					75					80
Thr	Leu	Pro	Leu	Trp	Ala	Thr	Tyr	Thr	Tyr	Arg	Asp	Tyr	Asp	Trp	Pro
				85					90					95	
Phe	Gly	Thr	Phe	Phe	Cys	Lys	Leu	Ser	Ser	Tyr	Leu	Ile	Phe	Val	Asn
			100					105					110		
Met	Tyr	Ala	Ser	Val	Phe	Cys	Leu	Thr	Gly	Leu	Ser	Phe	Asp	Arg	Tyr
		115					120					125			
Leu	Ala	Ile	Val	Arg	Pro	Val	Ala	Asn	Ala	Arg	Leu	Arg	Leu	Arg	Val
	130					135					140				
Ser	Gly	Ala	Val	Ala	Thr	Ala	Val	Leu	Trp	Val	Leu	Ala	Ala	Leu	Leu
145					150					155					160
Ala	Met	Pro	Val	Met	Val	Leu	Arg	Thr	Thr	Gly	Asp	Leu	Glu	Asn	Thr
				165					170					175	
Thr	Lys	Val	Gln	Cys	Tyr	Met	Asp	Tyr	Ser	Met	Val	Ala	Thr	Val	Ser
			180					185						190	
Ser	Glu	Trp	Ala	Trp	Glu	Val	Gly	Leu	Gly	Val	Ser	Ser	Thr	Thr	Val
		195					200					205			
Gly	Phe	Val	Val	Pro	Phe	Thr	Ile	Met	Leu	Thr	Cys	Tyr	Phe	Phe	Ile
	210					215					220				
Ala	Gln	Thr	Ile	Ala	Gly	His	Phe	Arg	Lys	Glu	Arg	Ile	Glu	Gly	Leu
225					230					235					240
Arg	Lys	Arg	Arg	Arg	Leu	Leu	Ser	Ile	Ile	Val	Val	Leu	Val	Val	Thr
				245					250					255	
Phe	Ala	Leu	Cys	Trp	Met	Pro	Tyr	His	Leu	Val	Lys	Thr	Leu	Tyr	Met
		260						265					270		

Leu Gly Ser Leu Leu His Trp Pro Cys Asp Phe Asp Leu Phe Leu Met
 275 280 285

Asn Ile Phe Pro Tyr Cys Thr Cys Ile Ser Tyr Val Asn Ser Cys Leu
 290 295 300

Asn Pro Phe Leu Tyr Ala Phe Phe Asp Pro Arg Phe Arg Gln Ala Cys
 305 310 315 320

Thr Ser Met Leu Cys Cys Gly Gln Ser Arg Cys Ala Gly Thr Ser His
 325 330 335

Ser Ser Ser Gly Glu Lys Ser Ala Ser Tyr Ser Ser Gly His Ser Gln
 340 345 350

Gly Pro Gly Pro Asn Met Gly Lys Gly Gly Glu Gln Met His Glu Lys
 355 360 365

Ser Ile Pro Tyr Ser Gln Glu Thr Leu Val Val Asp
 370 375 380

<210> 18

<211> 14

<212> PRT

<213> Rana sp.

<400> 18

Arg Gln Arg Pro Arg Leu Ser His Lys Gly Pro Met Pro Phe
 1 5 10

<210> 19

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
 consensus sequence

<400> 19

Arg Gln Arg Pro Arg Leu Ser His Lys Gly Pro Met Pro Phe
 1 5 10

<210> 20

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
 peptide

<400> 20

Lys Lys Lys Arg

1

<210> 21

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 21

Arg Arg Arg Arg

1